



**SAFETY DATA SHEET**  
**COLUMBIA RIVER CARBONATES**

Product: MICRONA™ Earthmix  
Version: 2.0  
Page: 1 of 7  
Revision Date: 8/1/2017

**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

Product Name/Trade Name(s): MICRONA™ Earth Mix 14M, MICRONA™ Earth Mix 6 x10, MICRONA™ Earth Mix MRS 40

**Manufacturer or Supplier's Details:**

Company name of supplier: Columbia River Carbonates  
Address: 300 N. Pekin Road,  
Woodland, WA 98674  
Telephone: (360) 225-6505  
Emergency Phone: (360) 225-6505  
Recommended use: Soil amendment, horticultural or animal feed  
Restrictions on use: For agricultural use only

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**SECTION 2 – HAZARDS IDENTIFICATION**

**GHS Classification**

Carcinogenicity: Category 1A

**GHS Label elements**

Hazard pictograms:



Signal Word: Danger  
Hazard Statements: H350i May cause cancer by inhalation.

Precautionary Statements: **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood  
P281 Use personal protective equipment as required.  
**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/attention  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/container to an approved waste disposal plant

**Potential Health Effects**

**Carcinogenicity:**

**IARC** Group 1: Carcinogenic to humans  
Quartz (SiO<sub>2</sub>) CAS# 14808-60-7

**NTP** The NTP's Report on Carcinogens lists crystalline silica (respirable size) as a known human carcinogen.

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Substance

**Hazardous ingredients**

Chemical Name	CAS-No.	Typical composition (%)
Ground Calcium Carbonate (GCC)	1317-65-3	95 -100%
Silica, crystalline (quartz)	14808-60-7	0.4%

**SECTION 4 – FIRST AID MEASURES**

- If inhaled:** Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
- In case of skin contact:** Wash off with soap and plenty of water.
- In case of eye contact:** Flush thoroughly with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing.
- If swallowed:** Rinse mouth thoroughly with water and drink afterwards plenty of water to dilute material in stomach. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

**SECTION 5 – FIRE FIGHTING MEASURES**

- Flash Point:** Non-Flammable
- Suitable extinguishing media:** This material is not combustible. Appropriate extinguishing media for surrounding fire should be used.
- Hazardous combustion products:** No hazardous combustion products are known
- Special protective equipment for fire fighters:** In the event of fire, wear self-contained breathing apparatus.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures:** Measures should be taken to minimize and protect against airborne dust during cleanup operations, including use of respiratory protective equipment if necessary.
- Environmental precautions:** No special environmental precautions required.
- Methods and materials for containment and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**SECTION 7 – HANDLING AND STORAGE**

- Advice on Safe Handling:** For personal protection see section 8. No special handling advice required.
- Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place.



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**Materials to avoid:** Do not store near acids.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients	CAS #	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ground Calcium Carbonate (GCC)	1317-65-3	TWA (Total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
Silica, crystalline (quartz)	14808-60-7	TWA (respirable fraction)	0.05 mg/m3	OSHA Z-1
		TWA (respirable fraction)	0.05 mg/m3	NIOSH REL
		TWA (respirable fraction)	0.025 mg/m3	ACGIH
		TWA (respirable fraction)	0.1 mg/m3	OSHA P0
		TWA (respirable fraction)	10 mg/m3 / %SiO2 + 2	OSHA Z-3
		TWA (respirable fraction)	250 mppcf / %SiO2 + 5	OSHA Z-3

**Personal Protective Equipment**

**Respiratory Protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection remarks:** For prolonged or repeated contact, use protective gloves.

**Eye protection:** Safety Glasses

**Skin and body protection:** Protective suit

**Hygiene measures:** General industrial hygiene practice

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Sand, Gravel  
**Color:** White  
**Odor:** Characteristic  
**pH:** 8.5-9.5, Concentration: 100g/l (20°C) Method: DIN-ISO 787/9  
**Melting Point:** >800°C  
 Decomposition: Decomposes below the melting point.  
 Decomposition: Decomposes below the boiling point  
**Boiling Point:** Non-Flammable  
**Flash Point:** Does not ignite  
**Flammability (solid, gas):** Not applicable  
**Vapor Pressure:** 2.71 g/ml  
**Specific Gravity:** 0.014 g/L @ 20°C  
**Solubility in Water:** Not applicable  
**Partition coefficient:** n-octanol/water: Not applicable  
**Auto-ignition Temperature:** Not applicable  
**Thermal Decomposition:** >600°C  
**Upper explosion limit:** Not explosive  
**Lower explosion limit:** Not explosive

**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** Stable under recommended storage conditions.

**Chemical Stability:** No decomposition if stored and applied as directed.



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**Incompatibility (Material to Avoid):**

Reacts with acids and liberates carbon dioxide. This displaces the oxygen in the air in closed spaces (danger of suffocation).

**Hazardous Decomposition Products:**

Thermal decomposition can produce calcium oxide and carbon dioxide.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity LD50 Oral (Rat) >5,000 mg/kg

**Ingredients:**

**Limestone:**

Acute oral toxicity: LD50 Oral (Rat) >5,000 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

**Product:**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

**Ingredients:**

**Silica, crystalline (quartz):**

Carcinogenicity-Assessment: Positive evidence from human epidemiological studies (inhalation)

**IARC**

Group 1: Carcinogenic to humans  
Silica, crystalline (quartz) 14808-60-7

**NTP**

Known to be human carcinogen  
Silica, crystalline (quartz) 14808-60-7

**Reproductive toxicity**

No data available

**STOT-repeated exposure**

**Ingredients:**

**Silica, crystalline (quartz):**

Routes of exposure: Inhalation

Target Organs: Lungs

Assessment: May cause damage to organs through prolonged or repeated exposure.

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**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 10,000 mg/l  
Exposure time: 96 h



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Toxicity to daphnia and other: EC50 (Daphnia magna (Water flea)): >1,000 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae: NOEC (Desmodesmus subspicatus (green algae)): 75 mg/l  
Exposure time: 72 h  
EC50 (Desmodesmus subspicatus (green algae)): >200 mg/l  
Exposure time: 72 h

**Ingredients:**

**Ground Calcium Carbonate (GCC):**

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): >10,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other: EC50 (Daphnia magna (Water flea)): >1,000 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae: EC50 (Desmodesmus subspicatus (green algae)): >200 mg/l  
Exposure time: 72 h

**Silica, crystalline (quartz):**

Toxicity to fish: No toxicity at the limit of solubility

Toxicity to daphnia and other: No toxicity at the limit of solubility  
aquatic invertebrates

Toxicity to algae: No toxicity at the limit of solubility

Toxicity to microorganisms: No toxicity at the limit of solubility

**Persistence and degradability**

**Product:**

Biodegradability: Not applicable

**Bioaccumulative potential**

**Ingredients:**

**Ground Calcium Carbonate (GCC):**

Partition coefficient: n- Not applicable  
octanol/water

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class I Substances

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, APP. A+B).

Additional ecological information: In solid state, these minerals are a major part of the rocks of the earth's surface. They are dissolved in a natural state and indispensable part of the natural waters. These minerals are not biodegradable. Negative effects on the environment should therefore be excluded. Restrictions may be indicated that concentrated suspensions of these minerals in natural waters may have an unfavorable effect on water organisms (disturbance of the micro flora and fauna in the sediment and subsequent detriment to the existence of higher water organisms).



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**Ingredients:**

**Ground Calcium Carbonate (GCC):**

Results of PBT and vPvB: Non-classified PBT substance, Non-classified vPvB substance  
assessment

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**SECTION 13 – DISPOSAL CONSIDERATIONS**

From a waste perspective, this product is not considered hazardous and may be disposed of as solid waste in accordance with applicable federal, state, provincial, and local regulations.

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**SECTION 14 – TRANSPORT INFORMATION**

**International Regulation**

**Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation**

Not a DOT hazardous material. Local regulations may apply.

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**SECTION 15 – REGULATORY INFORMATION**

**OSHA Hazards:** Carcinogen

**EPCRA – Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ

**SARA 311/312 Hazards:**

Acute/Chronic Health Hazard

**SARA 302:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III< Section 313.

**Clean Air Act:**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This Product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F)

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489)

**Clean Water Act:**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3

This Product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307



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**California Proposition 65:**

**Warning: Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer.**

**TSCA:**

This product primarily is natural calcium carbonate from limestone ore which is listed on the U.S. EPA TSCA inventory under Limestone, CAS# 1317-65-3. In addition, all other ingredients and/or processing aids are also on the TSCA inventory.

**DSL:**

By virtue of its status as a “substance occurring in nature”, ground limestone is considered to be on the Canadian Domestic Substances List. In addition, all other ingredients and/or processing aids are also on the DSL.

**CONEG:**

Being derived from limestone ore, this product may contain incidental trace levels of naturally occurring metals. However, no metals are intentionally added and this product complies with the CONEG requirement of <100 ppm of Cd, Cr<sup>+6</sup>, Pb, and Hg.

**ODCs:**

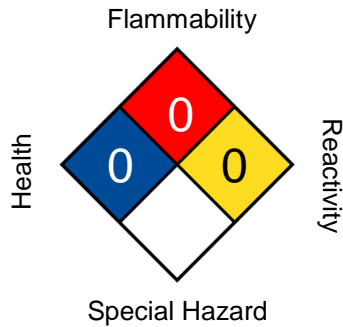
This product does not contain, nor is it produced with, any U.S. EPA-defined Class I or Class II ozone-depleting chemicals.

**FDA:**

This product qualifies as a substance permitted for direct addition to animal feed. It does not qualify as a substance permitted for direct addition to human food.

**SECTION 16 – OTHER INFORMATION**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1*</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

**Prepared by Technical Support Group**

The information contained herein has been compiled by Columbia River Carbonates from sources it considers reliable, and is accurate to the best of Columbia River Carbonates' knowledge. Before using the product identified hereon, the foregoing SDS and the product label should be read carefully. The information contained herein relates only to the product identified hereon, and does not relate to its use in combination with any other material or in any process. Customers are encouraged to conduct their own tests concerning the use of the product identified hereon as each customer's manner and conditions of use and handling may involve additional considerations. Columbia River Carbonates assumes and shall incur no liability for any damages, losses, injures, costs, or consequential damages that may result from the uses or misuse of the product identified hereon, and the recipient assumes all of such liability.